## IN THE CLAIMS

Please amend the claims as follows:

1. (currently amended) A method of regulating an average rate of transmission on a computer network employing TCP, comprising the steps of:

determining an amount of available space in a receive buffer; [[and]]

removing reading data from the receive buffer such that the amount of available space in the receive buffer is maintained at a regulated value; and

regulating a rate at which data is delivered to the receive buffer based on priority of the data.

- 2. (currently amended) The method of claim 1, wherein the step of removing reading data includes comprises regulating [[the]] a frequency at which data is read from the receive buffer.
- 3. (currently amended) The method of claim 1, wherein the step of removing reading data includes comprises regulating [[the]] an amount of data read during each read from the receive buffer.
- 4. (original) The method of claim 1, wherein a receiver measures an actual transfer rate.
- 5. (currently amended) The method of claim 1, wherein the step of determining an amount of available space in a receive buffer is performed by a rate control module located on a receiver.
- 6. (original) The method of claim 5, wherein the rate control module operates above a TCP layer and communicates with the TCP layer via a TCP application programming interface.

- 7. (original) The method of claim 1, wherein the average rate of transmission is regulated to an extent sufficient to reduce the effect that a transmission has on another transmission in the computer network.
- 8. (currently amended) The method of claim 1, wherein the step of removing data comprises using uses a determined frequency of lost packets.
- 9. (currently amended) A method of regulating an average rate of transmission on a computer network employing TCP, comprising the steps of:

determining an amount of available space in a receive buffer; [[and]] regulating an available space in the receive buffer by regulating a size of the receive buffer; and

regulating a rate at which data is delivered to the receive buffer based on priority of the data.

- 10. (original) The method of claim 9, wherein a receiver determines an actual transfer rate.
- 11. (currently amended) The method of claim 9, wherein the step of determining an amount of available space in a receive buffer is performed by a rate control module located on a receiver.
- 12. (original) The method of claim 11, wherein the rate control module operates above a TCP layer and communicates with the TCP layer via a standard TCP application programming interface.
- 13. (original) The method of claim 9, wherein the average rate of transmission is reduced.

- 14. (currently amended) The method of claim 13, wherein the reduction in average rate of transmission is sufficient to reduce [[the]] an effect that a transmission has on an other another transmission in the computer network.
- 15. (currently amended) The method of claim 9, wherein the step of reducing the receive buffer size comprises using uses a determined frequency of lost packets.
- 16. (currently amended) A system for regulating an average rate of transmission on a computer network, comprising:
  - a receive buffer located on a receiver; [[and]]
- a rate control module operable configured to determine available space in the receive buffer and to regulate a rate at which data is removed read from the receive buffer, such that the amount of available space in the receive buffer is maintained at a regulated value and;
- a transfer management module configured to regulate the rate at which data is delivered to the receive buffer based on priority of the data.
- 17. (currently amended) The system of claim 16, wherein the rate control module regulates the rate at which data is removed read by varying [[the]] a frequency at which data is read from the receive buffer.
- 18. (currently amended) The system of claim 16, wherein the rate control module regulates the rate at which data is removed read by varying [[the]] an amount of data read during each read from the receive buffer.
- 19. (original) The system of claim 16, wherein the rate control module operates above a TCP layer and communicates with the TCP layer via a standard TCP application programming interface.

- 20. (original) The system of claim 19, wherein the rate control module operates between the TCP layer and an FTP/HTTP layer.
- 21. (currently amended) The system of claim 19, wherein the rate control module is integrated into [[a]] an FTP/HTTP layer.
- 22. (original) The system of claim 16, wherein the average rate of transmission is reduced.
- 23. (currently amended) The system of claim 22, wherein the reduction in average rate of transmission is sufficient to reduce [[the]] <u>an</u> effect that a transmission has on another transmission.
- 24. (original) The system of claim 16, wherein the regulation of a rate at which data is removed is a function of a determined frequency of lost packets.
- 25. (currently amended) A system for transmitting data over a computer network employing TCP, comprising:
  - a sender;
  - a receiver;
  - a receive buffer located on coupled to the receiver; [[and]]
- a rate control module configured to regulate an amount of space available in the receive buffer to influence an average rate that data is <u>read from the receive buffer and</u> transferred from the sender to the receiver; <u>and</u>
- a transfer management module configured to regulate communication between the sender and receiver based on priority of the data.

- 26. (currently amended) The system of claim 25, wherein the rate control module regulates the amount of space available in the receive buffer by varying [[the]] <u>a</u> frequency at which data is read from the receive buffer.
- 27. (currently amended) The system of claim 25, wherein the rate control module regulates the amount of space available in the receive buffer by varying [[the]] an amount of data read during each read from the receive buffer.
- 28. (original) The system of claim 25, wherein the rate control module operates above a TCP layer and communicates with the TCP layer via a standard TCP application programming interface.
- 29. (original) The system of claim 28, wherein the rate control module operates between the TCP layer and an FTP/HTTP layer
- 30. (currently amended) The system of claim 28, wherein the rate control module is integrated into [[a]] an FTP/HTTP layer.
- 31. (original) The system of claim 25, wherein the average rate of transmission is reduced.
- 32. (currently amended) The system of claim 31, wherein the reduction in average rate of transmission is sufficient to reduce [[the]] <u>an</u> effect that a transmission has on <del>an other</del> another transmission.
- 33. (original) The system of claim 25, wherein the rate control module regulates the amount of space using a determined frequency of lost packets.
- 34. (cancelled)

- 35. (currently amended) The system of claim [[34]] <u>25</u>, wherein the transfer manager includes <u>management module further comprises</u> at least a schedule/priority manager.
- 36. (new) The system of claim 25, wherein the priority of the data is associated with a transmission rate and proportion of utilized bandwidth.
- 37. (new) The system of claim 16, wherein the priority of the data is associated with a transmission rate and proportion of utilized bandwidth at which the data is delivered to the receive buffer.